## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in this application:

- 1. (Cancelled)
- 2. (Currently Amended) The prosthetic valve of claim +24 wherein the anchor structure is formed from a lattice of interconnected elements, and has a substantially cylindrical configuration.
- 3. (Currently Amended) The prosthetic valve of claim +24 wherein the structural frame comprises a material selected from the group consisting of stainless steel, tantalum, platinum alloys, niobium alloy, cobalt alloy, and nickel-titanium alloy.
- 4. (Currently Amended) The prosthetic valve of claim <u>124</u> wherein the structural frame comprises a polymer.
- 5. (Currently Amended) The prosthetic valve of claim 124 wherein the biocompatible membrane assembly is formed from a flexible membrane-like material.
- 6. (Original) The prosthetic valve of claim 5 wherein the membrane-like material is a biological material.
- 7. (Original) The prosthetic valve of claim 6 wherein the biological material is a vein.
- 8. (Original) The prosthetic valve of claim 5 wherein the membrane-like material is a synthetic material.
- 9. (Original) The prosthetic valve of claim 8 wherein the synthetic material is an elastomeric polymer.

- 10. (Original) The prosthetic valve of claim 8 wherein the synthetic material is a bioabsorbable material.
- 11. (Original) The prosthetic valve of claim 8 wherein the synthetic material further comprises a reinforcement fiber.
- 12. (Currently Amended) The prosthetic valve of claim 424 wherein at least a portion of the structural frame is coated with an agent.
- 13. (Original) The prosthetic valve of claim 12 wherein the agent coating contains a therapeutic agent.
- 14. (Original) The prosthetic valve of claim 12 wherein the agent coating contains a pharmaceutic agent.
- 15. (Original) The prosthetic valve of claim 12 wherein the agent coating comprises an agent-eluting layer.
- 16. (Currently Amended) The prosthetic valve of claim 124 wherein at least a portion of the membrane assembly is coated with an agent.
- 17. (Currently Amended) The prosthetic valve of claim 1716 wherein the agent coating contains a therapeutic agent.
- 18. (Currently Amended) The prosthetic valve of claim 1716 wherein the agent coating contains a pharmaceutic agent.
- 19. (Currently Amended) The prosthetic valve of claim 4716 wherein the agent coating comprising an agent-eluting layer.

- 20. (Currently Amended) The prosthetic valve of claim 124 wherein at least a portion of the membrane assembly is impregnated with a therapeutic agent.
- 21. (Currently Amended) The prosthetic valve of claim 124 wherein at least a portion of the membrane assembly is impregnated with a pharmaceutic agent.
- 22. (Currently Amended) The prosthetic valve of claim 424 wherein the connecting member is a substantially straight member oriented in a direction substantially parallel to the longitudinal axis.
- 23. (Cancelled)
- 24. (Currently Amended) A prosthetic valve comprising:

a radially expandable structural frame defining a longitudinal axis, including an anchor structure having first and second open ends, a connecting member having first and second ends, the first end of the connecting member being attached to the second end of the anchor structure, and a cantilever valve strut having first and second ends. The prosthetic valve of claim—I wherein the first end of the cantilever valve strut is shaped into a semi-circular loop configuration and is cooperatively associated with the second end of the connecting member; and

- a biocompatible membrane assembly having a substantially tubular configuration disposed longitudinally about the structural frame, the membrane assembly including a first end having a first diameter and a second end having a second diameter, wherein the first diameter is greater than the second diameter, the first end of the membrane assembly being attached along the second end of the cantilever valve strut.
- 25. (Currently Amended) The prosthetic valve of claim 124 wherein the second end of the cantilever valve strut has a substantially straight shape and oriented in a direction substantially parallel to the longitudinal axis.
- 26. (Cancelled)

- 27. (Cancelled)
- 28. (Currently Amended) The prosthetic valve of claim 124 wherein the second end of the tubular biocompatible membrane has a closed end.
- 29. (Cancelled)
- 30. (Currently Amended) The prosthetic valve of claim <u>124</u> wherein the second end of the tubular biocompatible membrane moves from a substantially open to a substantially closed position by the cantilever valve strut.
- 31. (Currently Amended) The prosthetic valve of claim +24 wherein the structural frame further comprising a proximal collar attached to the second end of the connecting member and first end of the cantilever valve strut.
- 32. (Cancelled)
- 33. (Cancelled)
- 34. (Cancelled)
- 35. (Cancelled)
- 36. (New) A prosthetic valve comprising:

a radially expandable structural frame defining a longitudinal axis, including an anchor structure having first and second open ends, a connecting member having first and second ends, the first end of the connecting member being attached to the second end of the anchor structure, and a cantilever valve strut having first and second ends, the

first end of the cantilever valve strut being cooperatively associated with the second end of the connecting member; and

a biocompatible membrane assembly formed from a membrane-like biological vein, having a substantially tubular configuration disposed longitudinally about the structural frame, the membrane assembly including a first end having a first diameter and a second end having a second diameter, wherein the first diameter is greater than the second diameter, the first end of the membrane assembly being attached along the second end of the cantilever valve strut.